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PATENT ABSTRACTS OF JAPAN

11102589

April 13, 1999

ASSOCIATION MEMORY MODULE

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APPL-NO: 09279525

FILED-DATE: September 26, 1997

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PUB-TYPE: April 13, 1999 - Un-examined patent application (A)

PUB-COUNTRY: Japan (JP)

IPC-MAIN-CL: G 11C015#4

CORE TERMS: retrieval, memory, priority, module, encoder

ENGLISH-ABST:

PROBLEM TO BE SOLVED: To provide an association memory module having a high speed property being produced by performing best matching processing using hardware, and the flexibility for using the capacity of the entire prepared association memory module effectively.

SOLUTION: The memory module 100 has a means capable of arbitrarily setting the order of priority of data selection in a priority encoder 106 from the outside, and a simultaneous retrieval execution means for simultaneously giving input data to each of a plurality of association memories 100a-100d and for allowing each of a plurality of association memories 100a-100d to simultaneously execute retrieval. Then, the priority encoder 106 selects one retrieval result from a plurality of retrieval results being obtained by simultaneously executing the retrieval.